

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P285833

Luminaire Tested: **USSL-XL-C069-D-U-T4-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C069-D-U-T4-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43550.2 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

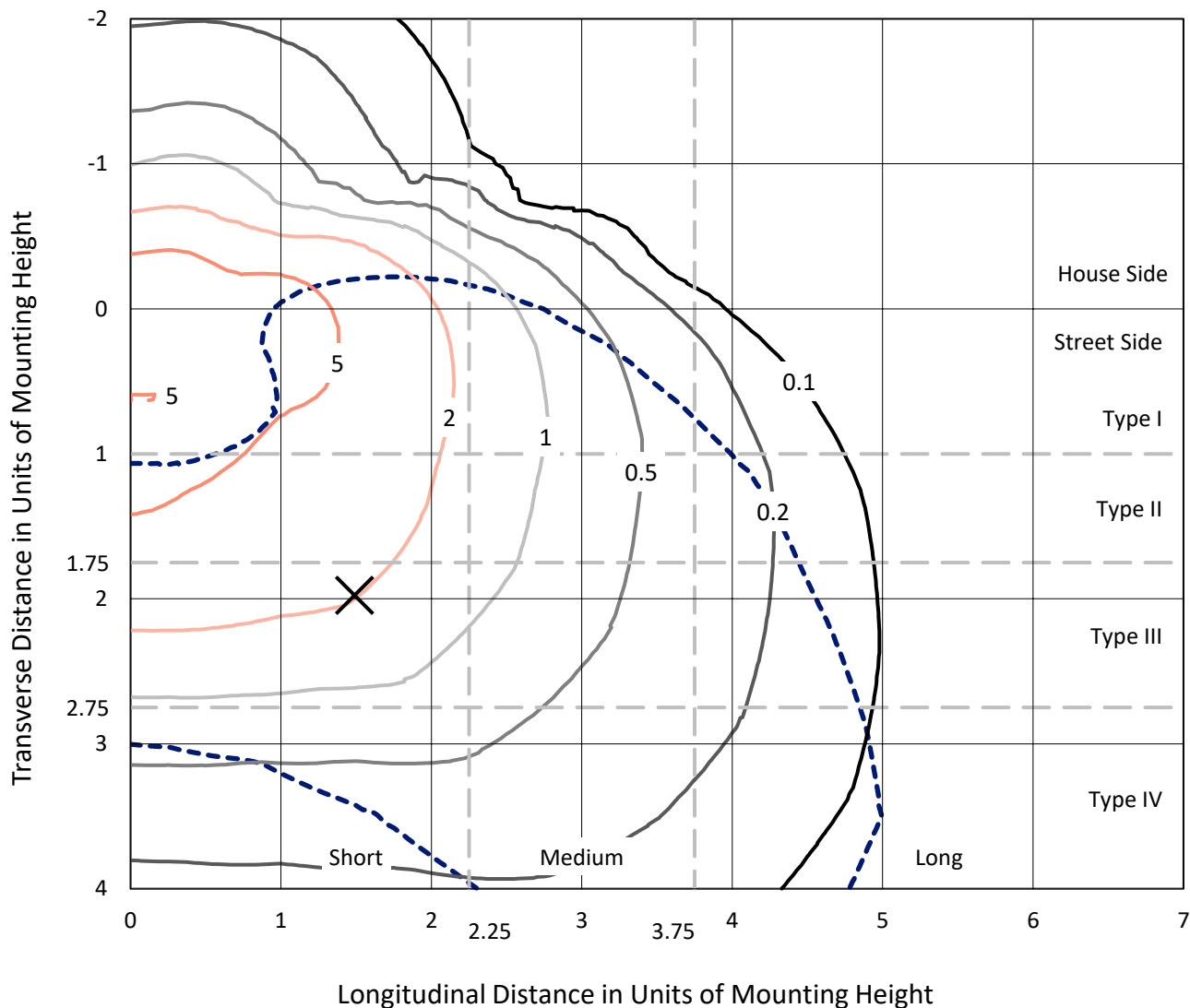
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

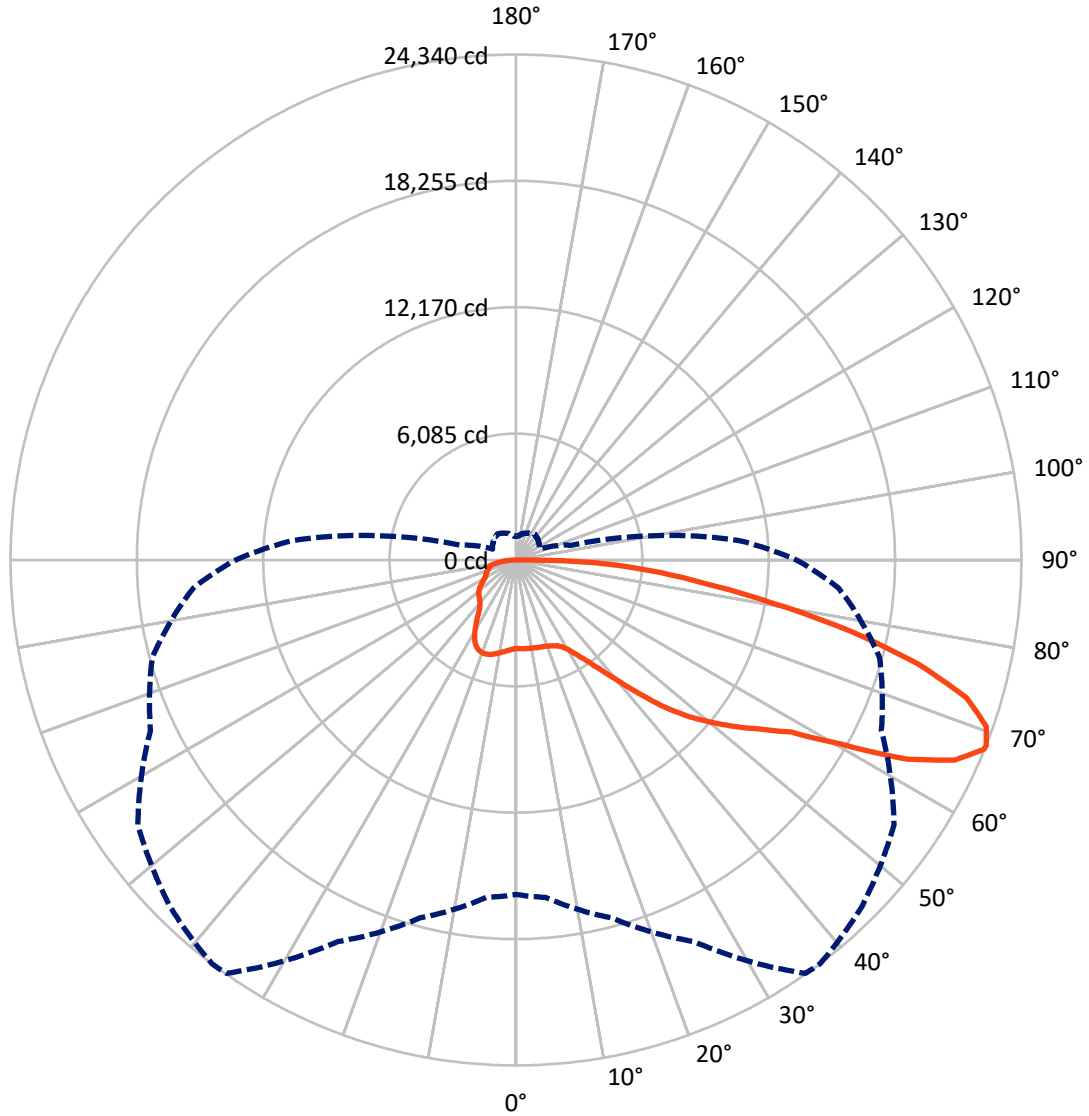
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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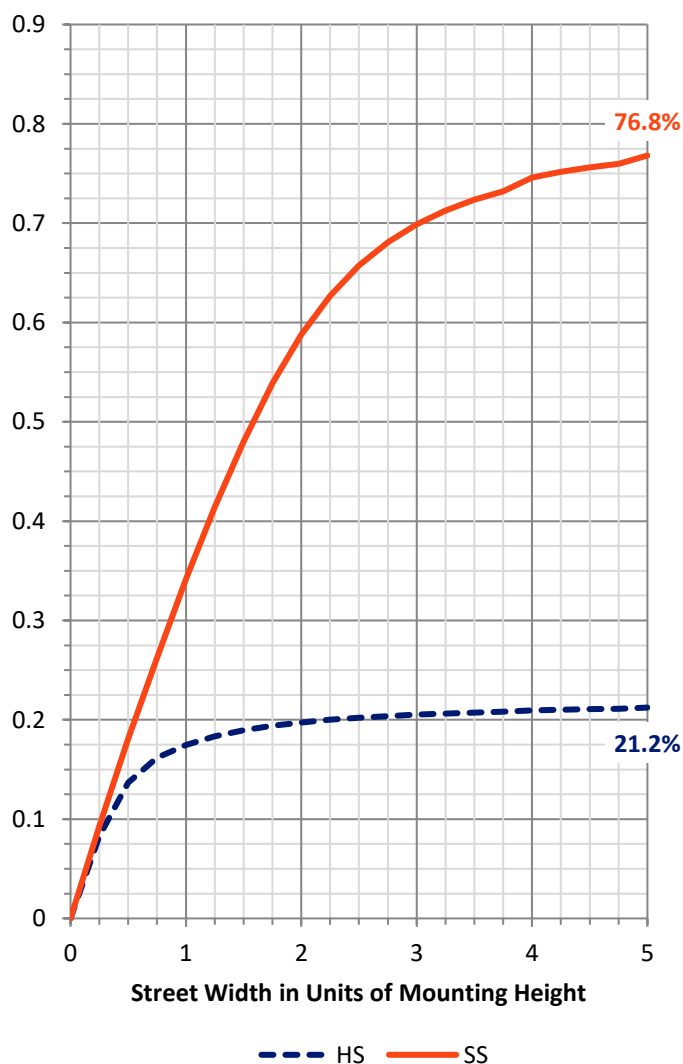
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9403.8 | 0.0 | 9403.8 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 34146.5 | 0.0 | 34146.5 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 43550.2 | 0.0 | 43550.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 413.6 | 0.9 |
| 10°-20° | 1285.4 | 3.0 |
| 20°-30° | 2195.6 | 5.0 |
| 30°-40° | 3497.9 | 8.0 |
| 40°-50° | 6066.7 | 13.9 |
| 50°-60° | 8794.0 | 20.2 |
| 60°-70° | 11090.2 | 25.5 |
| 70°-80° | 8217.7 | 18.9 |
| 80°-90° | 1989.1 | 4.6 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 43550.2 | 100.0 |
| 0°-180° | 43550.2 | 100.0 |

Coefficient of Utilization



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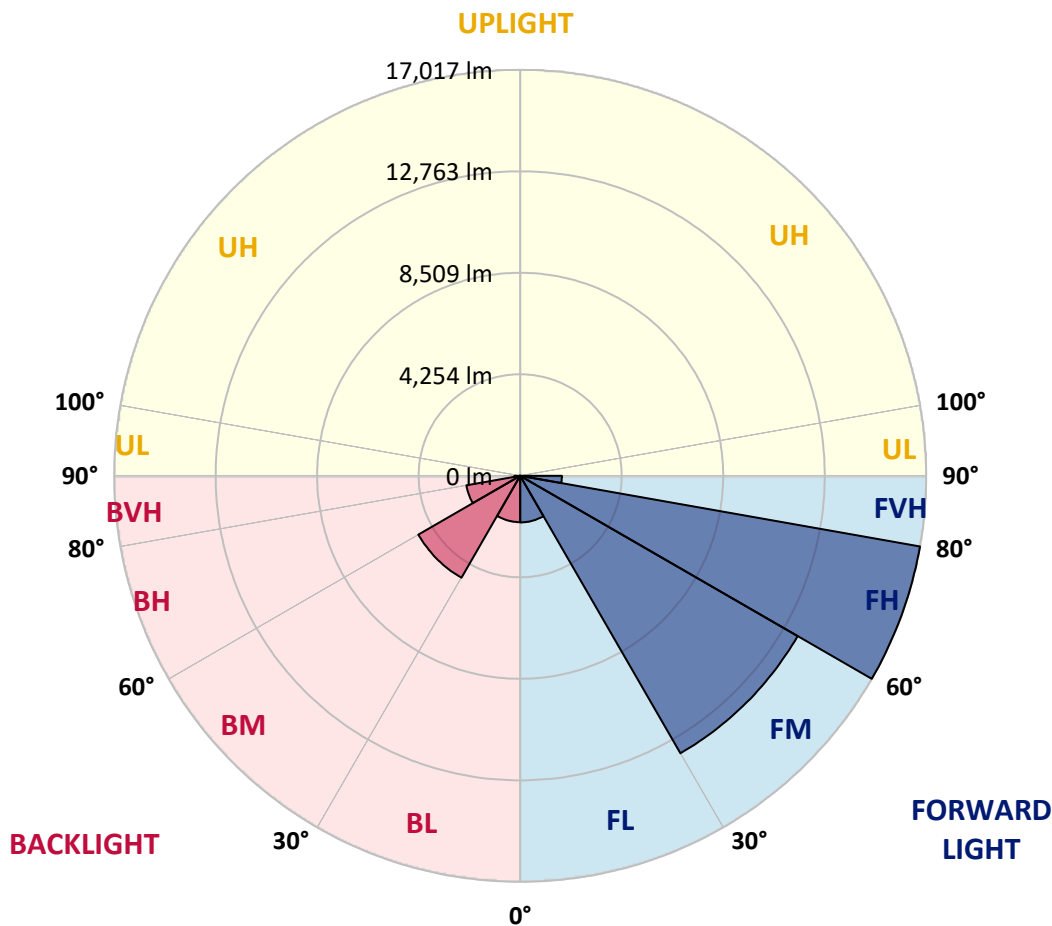
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1952.3 | 4.5 | | | |
| FM (30°-60°) | 13429.0 | 30.8 | | | |
| FH (60°-80°) | 17017.2 | 39.1 | | | G5 |
| FVH (80°-90°) | 1748.0 | 4.0 | | | G5 |
| BL (0°-30°) | 1942.2 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 4929.7 | 11.3 | B3/5000 | | |
| BH (60°-80°) | 2290.8 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 241.1 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 |
| 2.5° | 4256.9 | 4268.5 | 4271.9 | 4265.2 | 4271.9 | 4278.6 | 4263.6 | 4261.9 | 4255.2 | 4228.5 | 4231.9 |
| 5° | 4258.6 | 4273.5 | 4275.2 | 4270.2 | 4281.9 | 4288.6 | 4281.9 | 4275.2 | 4268.5 | 4230.2 | 4238.5 |
| 7.5° | 4258.6 | 4270.2 | 4273.5 | 4270.2 | 4286.9 | 4298.6 | 4298.6 | 4303.6 | 4303.6 | 4260.2 | 4266.8 |
| 10° | 4243.5 | 4253.5 | 4258.6 | 4266.8 | 4295.2 | 4311.9 | 4322.0 | 4345.3 | 4358.6 | 4328.6 | 4330.3 |
| 12.5° | 4175.1 | 4183.4 | 4200.2 | 4248.5 | 4315.3 | 4335.3 | 4363.7 | 4405.4 | 4438.8 | 4438.8 | 4442.0 |
| 15° | 4121.7 | 4130.0 | 4161.8 | 4226.9 | 4328.6 | 4355.3 | 4410.3 | 4480.5 | 4542.2 | 4575.6 | 4602.3 |
| 17.5° | 4135.1 | 4145.1 | 4191.8 | 4246.8 | 4348.7 | 4375.4 | 4453.8 | 4555.6 | 4657.3 | 4729.1 | 4782.5 |
| 20° | 4176.7 | 4183.4 | 4236.8 | 4300.2 | 4408.8 | 4427.1 | 4503.8 | 4629.0 | 4770.8 | 4889.3 | 4976.1 |
| 22.5° | 4295.2 | 4292.0 | 4335.3 | 4360.3 | 4472.1 | 4488.8 | 4577.3 | 4705.7 | 4889.3 | 5067.8 | 5194.7 |
| 25° | 4393.7 | 4408.8 | 4443.7 | 4463.8 | 4555.6 | 4570.6 | 4680.7 | 4822.5 | 5034.5 | 5264.7 | 5468.3 |
| 27.5° | 4502.1 | 4515.5 | 4550.6 | 4595.6 | 4724.1 | 4732.5 | 4809.2 | 4984.4 | 5219.7 | 5501.7 | 5827.1 |
| 30° | 4747.5 | 4745.8 | 4780.9 | 4829.2 | 5002.7 | 5017.8 | 5089.5 | 5269.8 | 5488.4 | 5840.5 | 6232.6 |
| 32.5° | 5171.4 | 5168.0 | 5172.9 | 5239.7 | 5428.3 | 5463.4 | 5555.1 | 5793.7 | 6067.4 | 6407.8 | 6843.4 |
| 35° | 6040.7 | 6005.7 | 5938.9 | 5885.5 | 5992.4 | 6032.4 | 6232.6 | 6527.9 | 7016.9 | 7686.1 | 8225.0 |
| 37.5° | 7477.5 | 7422.4 | 7197.1 | 6891.8 | 6768.3 | 6763.2 | 6903.4 | 7352.3 | 8113.2 | 9454.8 | 9942.2 |
| 40° | 8854.2 | 8855.8 | 8550.4 | 8136.6 | 7751.2 | 7731.1 | 7651.0 | 8206.7 | 9299.7 | 11115.3 | 11343.9 |
| 42.5° | 10159.0 | 10150.8 | 9795.3 | 9416.5 | 8955.9 | 8895.8 | 8662.2 | 9089.5 | 10484.4 | 12481.9 | 12527.0 |
| 45° | 11335.5 | 11308.8 | 10926.7 | 10683.1 | 10287.6 | 10167.4 | 9857.1 | 9992.2 | 11594.1 | 13578.3 | 13419.7 |
| 47.5° | 12471.9 | 12445.2 | 11968.0 | 11732.7 | 11385.6 | 11285.5 | 10956.7 | 11016.8 | 12655.4 | 14491.1 | 14142.2 |
| 50° | 13645.0 | 13636.7 | 12945.8 | 12717.2 | 12348.5 | 12306.7 | 12108.1 | 12151.5 | 13763.4 | 15250.3 | 14814.8 |
| 52.5° | 15035.0 | 14819.7 | 14043.8 | 13606.6 | 13344.7 | 13343.0 | 13121.0 | 13232.9 | 14988.4 | 15927.8 | 15282.0 |
| 55° | 16526.8 | 16254.8 | 15460.5 | 14831.5 | 14380.9 | 14387.6 | 14042.2 | 14222.4 | 16064.6 | 16533.5 | 15729.2 |
| 57.5° | 17591.5 | 17534.8 | 17297.8 | 16668.7 | 15737.6 | 15627.4 | 15096.8 | 15238.6 | 17009.1 | 17160.9 | 16051.2 |
| 60° | 18584.4 | 18826.4 | 18984.8 | 18784.6 | 18315.7 | 17997.0 | 16525.2 | 16313.2 | 17841.8 | 17713.3 | 16219.9 |
| 62.5° | 19210.2 | 19335.3 | 20074.5 | 20349.9 | 21085.8 | 21110.8 | 19350.3 | 17614.9 | 18551.0 | 18060.4 | 16294.9 |
| 65° | 18521.0 | 18706.2 | 19931.0 | 21007.3 | 23106.6 | 23226.8 | 22484.1 | 19785.8 | 19116.7 | 18180.6 | 16153.1 |
| 67.5° | 16598.6 | 16792.2 | 18264.0 | 20471.7 | 24224.5 | 24306.4 | 23535.4 | 22038.6 | 19398.7 | 18155.6 | 15737.6 |
| 68° | 16106.3 | 16313.2 | 17848.5 | 20269.7 | 24301.4 | 24339.8 | 23577.2 | 22225.5 | 19417.1 | 18127.2 | 15602.4 |
| 70° | 14068.9 | 14272.4 | 15827.7 | 19006.6 | 23997.6 | 24022.6 | 23313.5 | 22422.4 | 19322.0 | 17883.5 | 14713.0 |
| 72.5° | 11051.8 | 11257.1 | 12483.6 | 16123.0 | 22472.4 | 22691.1 | 22328.9 | 21861.7 | 18919.7 | 16934.0 | 12615.5 |
| 75° | 7831.3 | 8041.5 | 9318.0 | 12618.7 | 19373.7 | 19981.1 | 20703.7 | 20787.1 | 17414.6 | 14542.8 | 9398.1 |
| 77.5° | 5521.8 | 5693.6 | 6798.3 | 9433.2 | 15635.8 | 16421.8 | 17926.9 | 18050.4 | 14584.4 | 11096.9 | 4957.7 |
| 80° | 3584.4 | 3731.3 | 4720.8 | 6913.4 | 11819.5 | 12498.6 | 14152.3 | 13641.7 | 10364.3 | 6034.0 | 862.8 |
| 82.5° | 2164.3 | 2274.4 | 3007.0 | 4782.5 | 8648.9 | 9101.1 | 9775.2 | 8190.0 | 4809.2 | 852.7 | 302.1 |
| 85° | 1241.6 | 1316.6 | 1857.3 | 3072.1 | 6094.1 | 6479.6 | 6573.1 | 4111.7 | 904.4 | 235.3 | 170.2 |
| 87.5° | 635.7 | 674.2 | 996.2 | 1887.3 | 3601.1 | 3766.2 | 3297.3 | 1471.8 | 180.2 | 105.1 | 85.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 | 4255.2 |
| 2.5° | 4215.1 | 4226.9 | 4235.1 | 4263.6 | 4293.5 | 4308.6 | 4293.5 | 4317.0 | 4325.2 | 4318.6 | 4308.6 |
| 5° | 4225.2 | 4243.5 | 4256.9 | 4313.6 | 4347.0 | 4372.0 | 4355.3 | 4388.7 | 4400.4 | 4387.0 | 4387.0 |
| 7.5° | 4253.5 | 4278.6 | 4300.2 | 4375.4 | 4413.7 | 4447.1 | 4437.1 | 4460.5 | 4470.4 | 4453.8 | 4463.8 |
| 10° | 4328.6 | 4353.6 | 4382.1 | 4475.4 | 4500.5 | 4532.2 | 4513.8 | 4532.2 | 4535.5 | 4523.9 | 4532.2 |
| 12.5° | 4458.8 | 4475.4 | 4530.5 | 4625.6 | 4629.0 | 4637.4 | 4598.9 | 4563.9 | 4548.9 | 4527.2 | 4542.2 |
| 15° | 4625.6 | 4655.7 | 4730.8 | 4810.9 | 4789.2 | 4770.8 | 4675.7 | 4562.2 | 4490.5 | 4437.1 | 4433.8 |
| 17.5° | 4810.9 | 4864.3 | 4957.7 | 5009.4 | 4959.4 | 4876.0 | 4715.8 | 4523.9 | 4350.4 | 4255.2 | 4225.2 |
| 20° | 5001.1 | 5084.6 | 5188.0 | 5198.1 | 5113.0 | 4952.7 | 4709.1 | 4425.4 | 4138.4 | 3961.5 | 3918.1 |
| 22.5° | 5233.0 | 5341.6 | 5435.0 | 5384.9 | 5214.7 | 4979.4 | 4647.3 | 4251.9 | 3858.0 | 3589.4 | 3549.3 |
| 25° | 5540.1 | 5646.9 | 5663.6 | 5516.8 | 5253.1 | 4929.4 | 4505.5 | 3993.2 | 3494.3 | 3160.5 | 3128.8 |
| 27.5° | 5910.5 | 5967.3 | 5858.8 | 5585.1 | 5206.3 | 4779.2 | 4263.6 | 3634.4 | 3088.8 | 2798.5 | 2750.0 |
| 30° | 6321.0 | 6301.0 | 6002.3 | 5586.8 | 5069.5 | 4523.9 | 3896.4 | 3227.3 | 2768.4 | 2518.1 | 2471.4 |
| 32.5° | 6841.7 | 6709.9 | 6147.5 | 5511.7 | 4844.3 | 4180.1 | 3464.3 | 2901.9 | 2548.1 | 2292.8 | 2247.7 |
| 35° | 7876.3 | 7475.8 | 6344.5 | 5393.3 | 4545.6 | 3767.9 | 3085.5 | 2666.6 | 2359.5 | 2065.9 | 2024.1 |
| 37.5° | 9449.9 | 8620.5 | 6699.8 | 5263.1 | 4213.5 | 3345.8 | 2795.1 | 2483.0 | 2211.1 | 1897.3 | 1832.2 |
| 40° | 10829.8 | 9885.4 | 7267.2 | 5141.3 | 3874.8 | 3025.4 | 2628.2 | 2394.6 | 2129.2 | 1812.2 | 1745.4 |
| 42.5° | 11889.5 | 10898.3 | 7916.3 | 4996.2 | 3521.0 | 2788.4 | 2558.2 | 2382.9 | 2119.3 | 1812.2 | 1750.4 |
| 45° | 12745.6 | 11734.4 | 8493.7 | 4837.6 | 3178.9 | 2601.5 | 2494.7 | 2361.2 | 2099.2 | 1802.3 | 1743.7 |
| 47.5° | 13421.4 | 12358.4 | 8949.3 | 4655.7 | 2823.5 | 2474.7 | 2429.6 | 2286.1 | 2047.5 | 1772.2 | 1713.8 |
| 50° | 14007.1 | 12805.6 | 9204.6 | 4442.0 | 2508.0 | 2374.6 | 2337.8 | 2166.0 | 1944.1 | 1683.8 | 1645.4 |
| 52.5° | 14415.9 | 13169.5 | 9301.4 | 4353.6 | 2282.8 | 2261.1 | 2212.8 | 2044.1 | 1832.2 | 1578.6 | 1535.2 |
| 55° | 14723.0 | 13356.3 | 9221.2 | 4151.7 | 2057.5 | 2085.9 | 2064.2 | 1950.7 | 1753.8 | 1513.5 | 1470.1 |
| 57.5° | 14879.8 | 13418.0 | 8992.6 | 3390.8 | 1843.9 | 1877.3 | 1892.3 | 1899.0 | 1742.2 | 1531.9 | 1491.8 |
| 60° | 14934.9 | 13321.2 | 8493.7 | 2421.3 | 1615.3 | 1682.1 | 1765.5 | 1790.5 | 1690.4 | 1461.8 | 1428.4 |
| 62.5° | 14851.4 | 13069.3 | 7515.9 | 1673.7 | 1441.8 | 1560.3 | 1670.4 | 1663.7 | 1556.9 | 1358.4 | 1313.3 |
| 65° | 14526.0 | 12451.9 | 5715.3 | 1350.0 | 1383.4 | 1505.2 | 1626.9 | 1545.2 | 1441.8 | 1258.2 | 1234.9 |
| 67.5° | 13738.4 | 11151.9 | 3205.6 | 1246.5 | 1365.0 | 1473.5 | 1551.9 | 1453.4 | 1338.3 | 1164.7 | 1154.8 |
| 68° | 13504.8 | 10769.9 | 2736.7 | 1239.9 | 1361.7 | 1463.4 | 1531.9 | 1430.1 | 1318.3 | 1149.8 | 1143.1 |
| 70° | 12143.2 | 8800.8 | 1234.9 | 1218.1 | 1341.6 | 1426.7 | 1476.8 | 1365.0 | 1244.9 | 1098.1 | 1088.0 |
| 72.5° | 9383.1 | 5450.0 | 829.4 | 1158.0 | 1291.6 | 1371.7 | 1403.4 | 1298.3 | 1198.1 | 1034.6 | 1021.2 |
| 75° | 5561.8 | 1498.5 | 785.9 | 1054.6 | 1206.5 | 1318.3 | 1351.7 | 1246.5 | 1128.1 | 939.5 | 917.8 |
| 77.5° | 1368.3 | 540.7 | 760.9 | 937.8 | 1118.0 | 1229.8 | 1283.2 | 1211.5 | 1068.0 | 846.0 | 824.4 |
| 80° | 415.5 | 430.5 | 724.2 | 811.0 | 1006.3 | 1098.1 | 1129.7 | 1129.7 | 987.8 | 595.8 | 627.5 |
| 82.5° | 273.7 | 345.4 | 617.4 | 609.1 | 799.3 | 909.4 | 849.4 | 852.7 | 776.0 | 265.3 | 310.3 |
| 85° | 171.9 | 282.0 | 417.2 | 398.8 | 509.0 | 557.3 | 604.0 | 620.8 | 545.6 | 76.7 | 5.0 |
| 87.5° | 88.4 | 120.2 | 146.8 | 156.9 | 201.9 | 288.7 | 387.2 | 380.5 | 280.3 | 68.5 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)